

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Nasmyth *et al.*

Appl. No. 09/308,109

102(e) Date: June 2, 1999

For: **Methods for Producing the  
Anaphase Promoting Complex**



Confirmation No.

Art Unit: 1647

Examiner: Saoud, C.

Atty. Docket: 0652.1880000/EKS/KKV

**Request to Approve Proposed Drawing Corrections**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Attached are copies of six (6) sheets of drawings, containing proposed corrections to Figures 6, 10 and 11, shown in red. The proposed changes are the result of the deletion of the sequences in Figures 6B, 10A and 11A. These figures only show sequence comparisons which are not required to practice the claimed invention. Thus, the proposed changes add no new matter to this application. Applicants request that the Examiner approve the proposed corrections. After official communication of such approval, Applicants will make the appropriate corrections to the formal drawings.

Respectfully submitted,

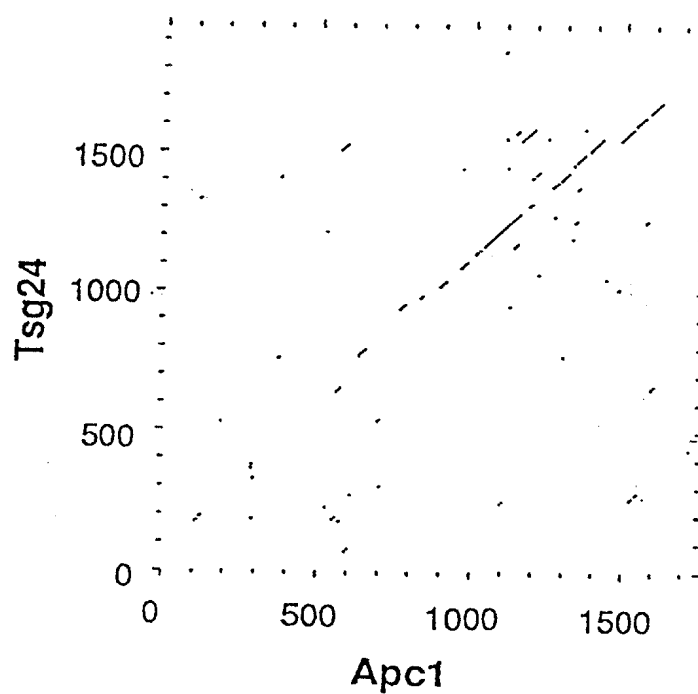
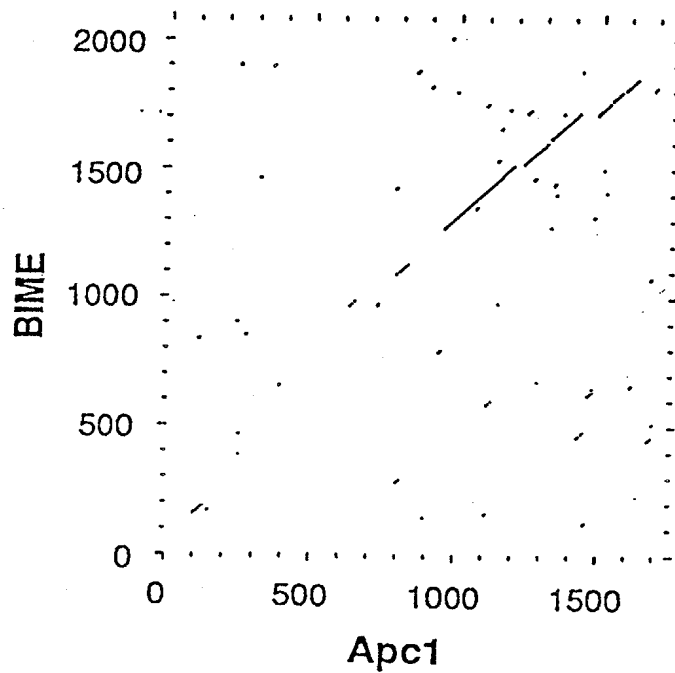
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13/22  
Fig. 6A  
6



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Fig. 6B

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apc1  AG LIFSEDKRFTHVVSLLAYVRPTKTQFFT.TKTEYAQIQAQERYFAKIMALRTCTNCVG 960
bime  .. LIFREDKRFIEAARLLNQSKAPAAECHPEPEWTDSDLEAQAQEVVQLVTLRTLSLSTG 1274
tsg24  .. LIWSEDLRVQHVRLQLSAQEVVRVNVVQYPELSDHEFIEERENRLLQLCQRTMALPVG 1083
Consensus  -- LIFSEDKRF-HV-RLQ-----P-----PE--D--LE-KH-----LRT--PVG 1366

apc1  WGAVAYATEKPISTCKRVVTOPLNLISVFE..DDTKITVKAPEDIAHDIVEWCQFHAGVSS 1018
bime  RAMLAFSCGRFLPLLEELPISTSLQCMKESNVITISADRA SFH..EEKICVAFPHNGVST 1332
tsg24  RGMFTLFSYHPVPTEPLEVVKLNLTCGRAPERNTTVDLNSCNIDVPPNMAASVAFPHNGVST 1143
Consensus  EGM-A-----P--TEKLPIS-LNL--V-EE-N-T-----A--D-----VA-FHNGVS- 1426

apc1  GLRISKKATGTCISWIAFNKPE..ELDAYHCGFLLGLGLNGLKKNLEEWRYNYLSRANT 1076
bime  GLAISYNSKGGIDTSWILENKPE..ELTNRRHAGFLLGLGLNGLKRSLSAKMVAFKYLTEKHT 1390
tsg24  GLKHA PASQ..LDSAWIVYNNKPEHAELANREYACFLLMALGLNGLTKLATLNIH DYLGKGE 1202
Consensus  GL-ISK-K-S-GID-SWI-FNKPE--EL-N-HAGFLLALGLNGL--LA-M-N--NYLTE-HN 1486

apc1  HISIGLLLLGMSSSMKGSMDSKLIEVISVHLVAFLPSCSSSBLDIDKLLOTAGHIGMGNLYL 1136
bime  NTSIGLLLLGLSASYLGTMDDTLVTRLLSVHVTFRMLPMGAABELLSPLOTAGHIGGIGLLYC 1450
tsg24  NTSIGLLLLGVSAKLGTMDDMSITRLLSIHVTFRLPPTSTETEDVPHNVQVAVVIGGLVYC 1262
Consensus  NTSIGLLLLG-SAS-LGTMDD--TRLLSVHV-A-LP-GS-ELN-----OTAGI-GIGLLY- 1546

apc1  NSRHRRNSDSITQOLVSLNVDHMDVAD...EYRLAAGISGLLNLGCAQOTKLRKWDSE 1192
bime  NSQHRRNSDSITQOLVSLNVDHMDVAD...EYRLAAGISGLLNLGCAQOTKLRKWDSE 1502
tsg24  GTAHRRHTAEVLLAEICRPPGPEHMYCTD...EYRLAAGISGLLNLGCAQOTKLRKWDSE 1311
Consensus  NS-HRRNSEY-LAEI-----E-E--D--E-YRLAAG-ALG-INLG-G-----S 1606

apc1  SFLGCGD.DLPEDYHDSSDVEQNVHYEDLTTKLLEIVTSTY..OVENDWTPENSOICAVIA 1250
bime  DLKCHRDHIVERLLAVAYGT...HNDOLAHVLDRTACATIA 1542
tsg24  NLIGNSDLNVPEQLYQYMGAGHRRFQTCMHREKHKSPSYQ..HECDITNY..DVTCPGATIA 1370
Consensus  -L-GN-D--PE-LY--VG-----H-FD--V-D--GATIA 1666

apc1  IMFLEFLYSNNFCHSNMILKKVLDKEILKANENTRPELLVYREMSNMILWFFYCODLSFIMK 1310
bime  LAIENHKTNDETLAQKVDIDDTVRFDYV..RDELLRLRLARHIMDDRILQACDEHFFIG 1600
tsg24  LAIENHKTNDETLAQKVDIDDTVRFDYV..RDELLRLRLARHIMDDRILQACDEHFFIG 1428
Consensus  LA-IFLEFLYSNNFCHSNMILKKVLDKEILKANENTRPELLVYREMSNMILWFFYCODLSFIMK 1726

apc1  DEY.....DICVKFSE..LNTDLLPIYVTHNGRILAHGIRFASTCHLKIRNTPE 1355
bime  SLEEVYR..RRVRETCTVRRLLKSNOMP...FNHACLCGACGLRFAGSEPDPTVRDPE 1652
tsg24  NVEQIIRENSISLSEYELPCSEDLNLEELLSQAHVYIAGACSLGFRFAGSENLVAFSCLE 1488
Consensus  -VE--R-----L-H--SED--L-T-----YIAG-CLALG-RFAGS-NL--R-IL 1786

apc1  LSLVDPKELPLYOYFGKONLDPRLTISVINLTVTVVYSLSHVMCASGDLEYLRRVXYLHE 1415
bime  LSLVDPKELPLYOYFGKONLDPRLTISVINLTVTVVYSLSHVMCASGDLEYLRRVXYLHE 1710
tsg24  HKFAKDFMNY..LSA..PN..ASVTCFYNLETCLSLVLSLAHVNAGSGNHLKQJLCRFLH 1543
Consensus  LS--D-F-----LPA-PN-D-EL-----C--VY-LSLAHVNAGSGNHLKQJLCRFLH- 1846

apc1  VASGPYSDLFQEIIPSSKSDVSGVTQVTSNTNTPGNSDRERVDETAASLDDERSNGSDIS 1475
bime  ..... 1710
tsg24  ..... 1543
Consensus  ..... 1906

apc1  DPTAYLEDKDKIDDHVYGFISTHVALGFLFLGSGQVALNTSTLESIAFLSMVLYPTTTP 1535
bime  .....GRVDPDTFYGSHMAAHNAHGMFLFLGSGQVALNTSTLESIAFLSMVLYPTTTP 1762
tsg24  .....MKTCGEHNYGFFHLAHHMALGLFLFLGSGQVALNTSTLESIAFLSMVLYPTTTP 1595
Consensus  -----K-D-D--YG-H-A-HMALG-FLFLGSG-Q-V-L-TSNL--ALLC-SLYE-FPT- 1966

apc1  .....HPLQELHMFWSIAVEPRCLVIKDISTGDAVNNVPIELVVEEDVEKEEYIREISTP 1590
bime  VLQNECHLOAEHRLVLAAPRCLVIRDLOSRRFI..SMPITVDS...DGMSCTLTAP 1816
tsg24  STDNRHLOAEHRLVLAAPRCLVIRDLOSRRFI..SMPITVDS...DGMSCTLTAP 1654
Consensus  --DN--HLOAEHRLVLAAPRCLV-D-DT--E--PIEVT-----E-V--EL-AP 2026

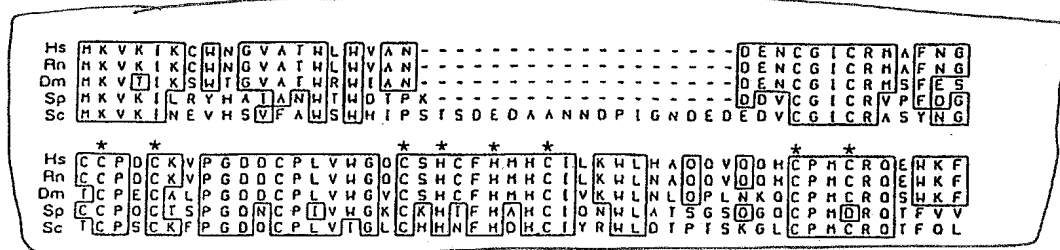
apc1  CLLEPFSKIKSIRVEMRGVFFLEVHETDYSA..SDFSGGTIIYIQRKSE..SVFENKAS 1647
bime  CLLEPFSKIKSIRVEMRGVFFLEVHETDYSA..SDFSGGTIIYIQRKSE..SVFENKAS 1871
tsg24  TLEPEHLLHOMKXVGRYHLLIDLSXGEQHLRSILSKDGVLYVKLEAGOLEYKEDPMG 1714
Consensus  CLLEPDL--IX--X-X-P-PPPL--DE-X-----E-SGD--LY--REA--S--ENC-G 2086

apc1  FRNVEDIHVALKRRKAE...SKNYSRLNLKNEQGNTTSSOLVESGIGQDLTMVELDTLLS 1704
bime  S..GFFSSVLAGLSSAODILPSASTSGASGQCKGLSPSSAPNVSAALMSHSHRFTFPAAS 1930
tsg24  WQSLLAQTVANRNSERAFKPTISSFT...SDPALLSFAEYFCXPTVSHGPTQEIID 1769
Consensus  --S--TVA--SAA--S--S--N-----S--AL--E-L-N--H-PK--LS 2146

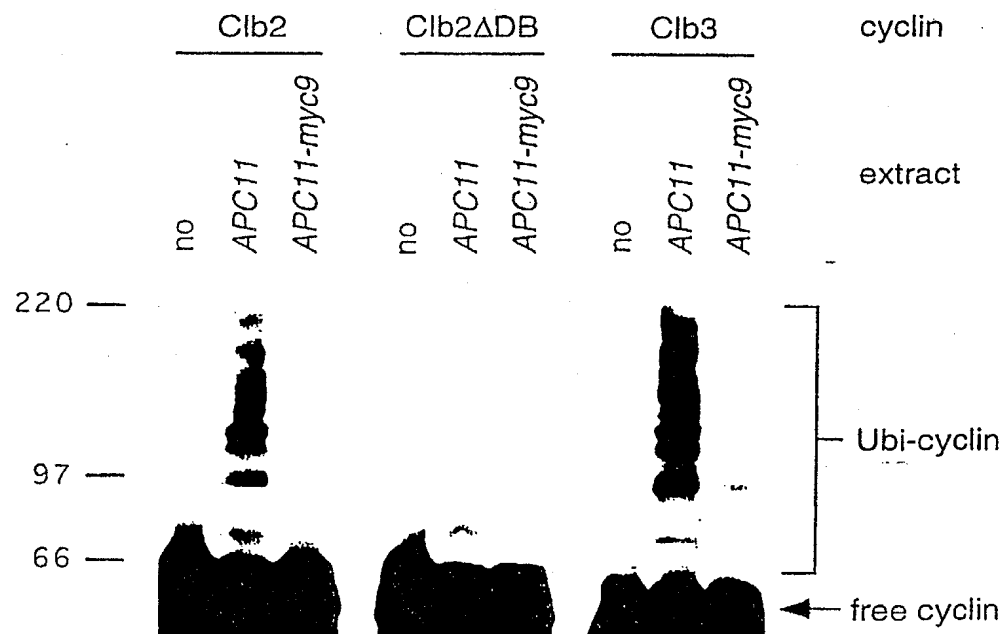
apc1  AGNNTALTDP1713
bime  IWDWIFQLD1939
tsg24  LFSSIL.YE1777
Consensus  ---H---D2155

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# A



B



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Fig. 11A

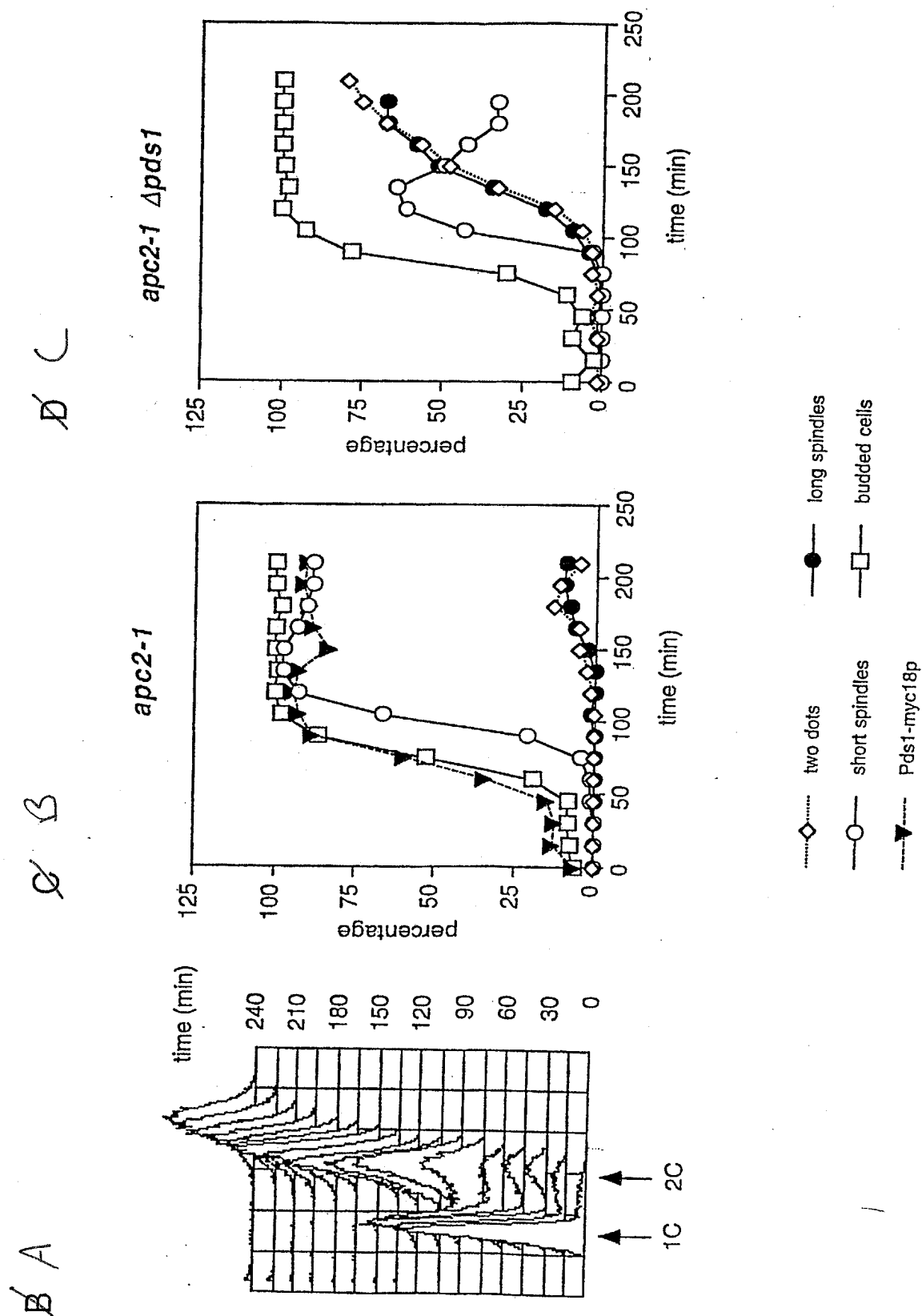
A

CeCul3 L F R Y L Q E K D V F E K Y F K Q Y L A K R L L L D K S C S D D V E K A L L A K L K T  
HsCul3 V L F R F M Q E K D V F E R Y Y K Q H L A R L L T N K S V S D D S E K N H I S K L K T  
CeCul4 V L F R Y L R G K D V F E A Y Y K R G L A K R L F L E R S A S V D A E K H V L C K L K T  
HsCul4a L F R F T H G K D V F E A F Y K K D L A K R L L V G K S A S V D A E K S W L S K L K H  
DmCul1 V V F K Y I E D K D V F Q K Y Y S K H L A K R L V N H T S A S D D A E A H H I S K L K Q  
HsCul1 V V F K Y I E D K D V F Q K F Y A K H L A K R L V H O N S A S D D A E A S H I S K L K Q  
HsCul2 T V F K Y I E D K D V F Q K F Y A K H L A K R L I H G L S H S H D S E E A H I N K L K Q  
ScCdc53 T I F K Y L T D K O A F E T H Y R R L F A K R L I H G T S T S A E D E E N T I O R L Q A  
CeKOH7.5 M L V S V Y G S K E L F V K E Y R N L L A E R L S S S O N K D P E F E K R Y L D L K L  
MmAp2 L L V S I Y G S K D L F I N E Y R S L L A D R L L H O F S F S P E R E I R N V E L L K L  
ScAp2 V L L D L F E S R E F F I S E F R N L L T D R L F T L K F Y T L D E K H T R C L K L I R

CeCul3 E C G C D F T D K L E N H F R - - - - - O K E L H - - - - - L T  
HsCul3 E C G C D F T S K L E G H F R - - - - - O H S I S - - - - - N T  
CeCul4 E C G S A F T Y K L E G H F K - - - - - O H D A S - - - - - E N  
HsCul4a E C G A A F T S K L E G H K - - - - - O H E L S - - - - - K D  
DmCul1 T C G Y E Y T V K L O R H F Q - - - - - D I G V S - - - - - K D  
HsCul1 A C G F E Y T S K L O R H F Q - - - - - D I G V S - - - - - K D  
HsCul2 A C G Y E F T S K L H R N Y T - - - - - O H S V S - - - - - A D  
ScCdc53 A N S H E Y T G K I T K H F O - - - - - O I R L S - - - - - K I  
CeKOH7.5 R F O Y S E L Q H C E V H L R - - - - - D V I H S - - - - - L D  
MmAp2 R F G E A P H F C E V H L K - - - - - O H A O S - - - - - R R  
ScAp2 E K I V K F T E T S H S N Y I T N G I L G L E T T A P A A D A D O S N L N S I D V H L

CeCul3 L A T S F R D W R E A Q P - T K M S - - I D I S L R V L T A G V H P T V Q C N P - - -  
HsCul3 T H O E F R O H L O A T G - V S L G G - V I O L T V R V L T T G Y H P T O S A T P K - - -  
CeCul4 Y G R L F N Q Y L E H M N - K E K A - - - N F I A R V I T P E Y H P T Y D T Y E - - -  
HsCul4a I H V H F K Q H H Q N O S - D S G P - - I D L T K N I L T H G Y H P T Y T P H E - - -  
DmCul1 L N S Y F K Q Y L A E K N - L T H E - - I D F G I E V L S S G S H P P O L S N N - - -  
HsCul1 L N E Q F K K H L T N S - - E P L D - - L D F S I O V L S S G S H P P O Q S C T - - -  
HsCul2 L N N K F N N F I K N O D - T V I D L G I S F Q I Y V L O A G A H P L T Q A P S S T - - -  
ScCdc53 L E O D F A V A L K N E P O Y S K A K Y P D L O P F V L A E N H H P P S Y O E V E - - -  
CeKOH7.5 I D K K F E D H S E R S A G N Y D V P I I P I S A C I I S S H Y H P K L E T K T E - -  
MmAp2 I N A N I R E E D E K R P - V E E O P P F G V Y A V I L S S E F H P P F K D E K - - -  
ScAp2 H O I K C S E E L C R K M H E V A G L D P T I F P K F I S L L Y H K Y N C D T O G S N D

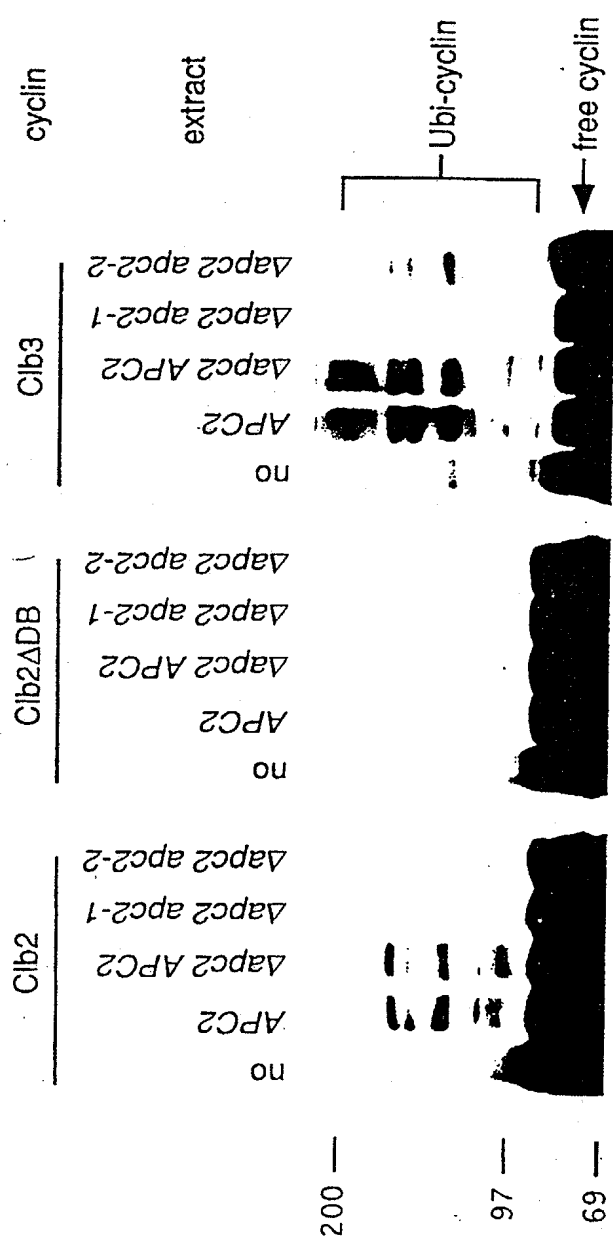
CeCul3 - - V V L P O E L S V A Y E H F T O Y Y T E X H T G R K L T I N T L L G N A D V K A T F  
HsCul3 - - C N I P P A P R H A F E I F R R F Y L A K H S G R O L T L O H H K G S A D L N A T F  
CeCul4 - - I N I P K E H R O T L T D Y O O F Y R V O H G N R N Y K H H H G L A S A V I S A S F  
HsCul4a - - V H L T P E M I K L Q E V F K A F Y L G K H S G R K L O H O T T L G H A V L K A E F  
DmCul1 - - F L L P S E L E R S V R O F N E F Y A A R H S G R K L N H L Y Q H C K G E L I H N V  
HsCul1 - - F A L P S E L E R S Y O R F T A F Y A S R H S G R K L T H L Y Q L S K G E L V T N C  
HsCul2 - - F A I P Q E L E K S V O M F E L F Y S O H F S G R K L T H L H Y L C T G E V K H N Y  
ScCdc53 - - F K L P K E L V P S H E K L K E S Y S O R H N G R I L K H L W P L C R G E L K A D I  
CeKOH7.5 - - A L H P O P L O A A H D V Y Q E T Y L O V K R D R K L E H L R S V G C V E Y S I N I  
MmAp2 - - L E V P E D I R A A L D V Y C K K Y E K L K A M R T L S H K H T L G L V T H D V E L  
ScAp2 L A F H L P I D L E R E L Q K Y S D I Y S O L K P G R K L O L C K D K G K V E I O L A F



**Fig. 11B**

11A-C

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Fig. 11c



200 —  
97 —  
69 —